

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior listings of claims in the application.

LISTING OF CLAIMS

Please amend claim 1 as follows:

Claim 1 (currently amended): An automatic feeding device for feeding plural sheets of a recording medium stacked on a stacking portion by separating them one by one, comprising:

 feeding means for carrying said recording medium stacked on said stacking portion;

 separating means for separating said recording medium one by one by abutting against said recording medium carried by said feeding means; and

 a front stage regulating member for confining the number of sheets of said recording medium advancing into said separating means, wherein

 supporting means for supporting said feeding means so that at least one end of said feeding means is movable between plural positions during the execution of a series of feeding operations,

 wherein said plural positions include a first position for said feeding means to have a predetermined gap with said front stage regulating member, and a second position for said feeding means to ~~presseontact with~~ said recording medium to said front stage regulating member.

Claim 2 (cancelled)

Claim 3 (previously presented): An automatic feeding device according to Claim 1, wherein said front stage regulating member is biased toward said feeding means by a biasing structure which is formed so as to generate pressure between said front stage regulating member and said feeding means when said feeding means moves to said second position.

Claim 4 (previously presented): An automatic feeding device according to Claims 1 or 3, wherein a biasing structure is arranged to enable said feeding means to be in said first

position before the initiation of feeding operation, and to move in the direction toward said second position immediately after the feeding operation begins, and to return to said first position during the separation of said recording medium by said separating means, and to move to said second position during the operation of adjusting the advancing direction of said recording medium, and then, to return to said first position when the feeding operation is completed.

Claim 5 (previously presented): An automatic feeding device according to Claim 1, wherein said feeding means is structured to move in the direction substantially along a straight line.

Claim 6 (previously presented): An automatic feeding device according to Claim 1, wherein said feeding means is formed by a sheet-feeding roller having a circular shape on the side face, and said separating means is formed by a separation roller provided with a torque limiter rotative by a predetermined torque.

Claim 7 (original): An automatic feeding device according to Claim 1, wherein the force of said feeding means to move said supporting member is generated by the relations of the vertical resistance N generated by said separating means abutting against said feeding means, the friction force F generated by said vertical resistance N between said feeding means and said recording medium, the tangential force Ft generated by said separating means, and an angle β formed by the straight line connecting the rotational center of said feeding means and the rotational center of said separating means, and the moving direction of said feeding means.

Claim 8 (previously presented): An automatic feeding device according to Claim 1, wherein the value of $1/\tan\beta$ obtainable on the basis of the angle β formed by the straight line connecting the rotational center of said feeding means and the rotational center of said separating means, and the moving direction of said feeding means is larger than the value

of friction coefficient of said recording mediums themselves to be separated by said separating means.

Claim 9 (original): A recording apparatus provided with an automatic feeding device according to Claim 1, comprising:

sheet-conveying means for conveying said recording medium from said automatic feeding device to the recording area; and

skew preventing means for adjusting the advancing direction of said recording medium by use of said sheet-conveying means, wherein

the structure is arranged to drive said sheet-conveying means and said automatic feeding device with one and the same driving source, and the driving power is not transmitted from said driving source to said feeding means when said sheet-conveying means is driven to convey said recording medium in the direction of conveying said recording medium to said recording area, and then, said driving power is transmitted to said feeding means when said sheet-conveying means is driven in the direction of conveying said recording medium opposite to said direction.

Claim 10 (previously presented): A feeding device comprising:

a pickup roller for carrying sheet;

a pressure plate for pressing sheet to said pickup roller;

a separation roller for separating sheet in cooperation with said pickup roller to enable said pickup roller to convey the separated sheet;

a guide member facing said pickup roller for guiding sheet advancing into the nipping portion of said pickup roller and said separation roller;

a roller pair abutting the leading end of sheet conveyed by said pickup roller for correcting the diagonal advance of the sheet; and

supporting means for supporting said pickup roller to be movable to a first position having said pickup roller and said guide member to be separated, and a second position having said pickup roller to press sheet to said guide member.

Claim 11 (original): A feeding device according to Claim 10, wherein said second position is more on the upstream side than said first position in the sheet conveying direction.

Claim 12 (original): A feeding device according to Claim 10, further comprising:
a spring biasing said separation roller to said pickup roller, wherein
when said pickup roller and said separation roller are separated, the biasing force
of said spring enables said pickup roller to be held in said first position.

Claim 13 (original): A feeding device according to Claim 12, wherein when only one sheet is pinched between said pickup roller and said separation roller, the reaction force received by rotating pickup roller from sheet causes said pickup roller to move from said first position to said second position against the biasing force of said spring.

Claim 14 (original): A feeding device according to Claim 10, further comprising:
a torque limiter giving resistance to the rotation of said separation roller in the direction allowing sheet to advance.

Claim 15 (original): A feeding device according to Claim 14, further comprising:
a return lever for pushing back sheets other than the separated sheet to the upstream side in the conveying direction after said pickup roller and said separation roller begin the sheet separation.

Claim 16 (original): A feeding device according to Claim 15, wherein said separation roller is away from said pickup roller while the sheets are pushed back by said return lever.

Claim 17 (original): A feeding device according to Claim 16, wherein after the sheets are pushed back by said return lever, the separation roller moves to the position to pinch sheet in cooperation with said pickup roller, and the action of said torque limiter is released.

Claim 18 (previously presented): A recording apparatus comprising: a feeding device according to Claim 9, and

a carriage for holding a recording head for forming images on sheets fed by said feeding device.

Claim 19 (previously presented): An automatic feeding device according to Claim 3, wherein a biasing structure is arranged to enable said feeding means to be in said first position before the initiation of feeding operation, and to move in the direction toward said second position immediately after the feeding operation begins, and to return to said first position during the separation of said recording medium by said separating means, and to move to said second position during the operation of adjusting the advancing direction of said recording medium, and then, to return to said first position when the feeding operation is completed.

Claim 20 (previously presented): A recording apparatus comprising: a feeding device according to Claim 10, and

a carriage for holding a recording head for forming images on sheet fed by said feeding device.

Claim 21 (previously presented): A recording apparatus comprising: a feeding device according to Claim 11, and

a carriage for holding a recording head for forming images on sheet fed by said feeding device.

Claim 22 (previously presented): A recording apparatus comprising: a feeding device according to Claim 12, and

a carriage for holding a recording head for forming images on sheet fed by said feeding device.

Claim 23 (previously presented): A recording apparatus comprising: a feeding device according to Claim 13, and

a carriage for holding a recording head for forming images on sheet fed by said feeding device.

Claim 24 (previously presented): A recording apparatus comprising: a feeding device according to Claim 14, and

a carriage for holding a recording head for forming images on sheet fed by said feeding device.

Claim 25 (previously presented): A recording apparatus comprising: a feeding device according to Claim 15, and

a carriage for holding a recording head for forming images on sheet fed by said feeding device.

Claim 26 (previously presented): A recording apparatus comprising: a feeding device according to Claim 16, and

a carriage for holding a recording head for forming images on sheet fed by said feeding device.

Claim 27 (previously presented): A recording apparatus comprising: a feeding device according to Claim 17, and

a carriage for holding a recording head for forming images on sheet fed by said feeding device.